



#3

SEQUENCE LISTING

<110> PEPTIDE TECHNOLOGICS LIMITED et al

<120> A METHOD FOR MAPPING THE ACTIVE SITES BOUND BY ENZYMES  
THAT COVALENTLY MODIFY SUBSTRATE MOLECULES

<130> 39200A/JMD/NT

<140> PCT/GB98/03259

<141> 1998-10-30

<150> GB 9722818.3

<151> 1997-10-30

<160> 21

<170> PatentIn Ver. 2.1

<210> 1

<211> 3

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: formula for a  
library comprising natural and/or unnatural amino  
acid residues or peptidomimetics

<220>

<221> UNSURE

<222> (1)

<223> Xaa at position 1 is any natural or unnatural  
amino acid residue or peptidomimetic and is  
repeated x times

<220>

<221> UNSURE

<222> (2)

<223> Xaa at position 2 is a non-degenerate modifiable  
natural or unnatural amino acid residue or  
peptidomimetic

<220>

<221> UNSURE

<222> (3)

<223> Xaa at position 3 is any natural or unnatural  
amino acid residue or peptidomimetic and is  
repeated y times.

<220>

<221> UNSURE

<222> (1)..(3)

<223> x and y are each independently 0 or an integer; (x  
+ y) = (n - 1); and n = an integer from 3 to 8,  
preferably 5

<400> 1  
Xaa Xaa Xaa  
1

<210> 2  
<211> 3  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: formula for  
library used to identify protein kinase inhibitor  
molecules

<220>  
<221> UNSURE  
<222> (1)  
<223> Xaa at position 1 is any natural or unnatural  
amino acid residue or peptidomimetic and is  
repeated x times

<220>  
<221> UNSURE  
<222> (3)  
<223> Xaa at position 3 is any natural or unnatural  
amino acid residue or peptidomimetic and is  
repeated y times

<220>  
<221> UNSURE  
<222> (1)..(3)  
<223> x and y are each independently 0 or an integer;  $(x + y) = (n-1)$ ; and n = an integer from 3 to 8,  
preferably 5

<400> 2  
Xaa Tyr Xaa  
1

<210> 3  
<211> 8  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: consensus  
peptide substrate for ZAP-70

<220>  
<221> UNSURE  
<222> (1)  
<223> Biotin-epsilon-aminohexanoic acid is linked to the  
aspartic acid residue at position 1

<220>

<221> UNSURE  
<222> (8)  
<223> Leucine at position 8 is Norleucine

<400> 3  
Asp Glu Glu Asp Tyr Phe Glu Leu  
1 5

<210> 4  
<211> 3  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: general  
formula for peptide library containing substrates  
for protein serine or serine/threonine kinase  
enzyme

<220>  
<221> UNSURE  
<222> (1)  
<223> Xaa at position 1 is any natural or unnatural  
amino acid residue or peptidomimetic and is  
repeated x times

<220>  
<221> UNSURE  
<222> (3)  
<223> Xaa at position 3 is any natural or unnatural  
amino acid residue or peptidomimetic and is  
repeated y times

<220>  
<221> UNSURE  
<222> (1)..(3)  
<223> x and y are each independently 0 or an integer; (x  
+ y) = (n - 1); and n = an integer from 3 to 8,  
preferably 5

<400> 4  
Xaa Ser Xaa  
1

<210> 5  
<211> 36  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: PCR primer  
used to amplify the coding sequence for human  
ZAP-70 amino acids 306-615 from Jurkat T cell cDNA

<400> 5

ccgggatccg ccatgcccacat ggacacgagc gtgtat

36

<210> 6

<211> 57

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: PCR primer  
used to amplify the coding sequence for human  
ZAP-70 amino acids 306-615 from Jurkat T cell cDNA

<400> 6

gggggatcct cagtgggtggt ggtgggtggtg ggcacaggca gcctcagcct tctgtgt

57

<210> 7

<211> 5

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: sequence of  
phosphorylated motif identified by screen of  
library peptides

<400> 7

Asp Glu Glu Asp Tyr

1

5

<210> 8

<211> 5

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: sequence of  
phosphorylated motif identified by screen of  
library peptides

<400> 8

Asp Glu Glu Tyr Phe

1

5

<210> 9

<211> 5

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: sequence of  
phosphorylated peptide motif identified by screen  
of library peptides

<400> 9

Asp Glu Tyr Glu Phe

1

5

<210> 10  
<211> 5  
<212> PRT  
<213> Artificial Sequence

<220>  
<221> UNSURE  
<222> (5)  
<223> Leucine at position 5 is Norleucine

<220>  
<223> Description of Artificial Sequence: sequence of  
phosphorylated motif identified by screen of  
library peptides

<400> 10  
Asp Tyr Phe Glu Leu  
1 5

<210> 11  
<211> 5  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: peptide  
identified as a preferred substrate for Syk

<400> 11  
Asp Glu Glu Asp Tyr  
1 5

<210> 12  
<211> 5  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: peptide  
identified as a preferred substrate for Syk

<400> 12  
Asp Glu Glu Tyr Asp  
1 5

<210> 13  
<211> 5  
<212> PRT  
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: peptide  
identified as a preferred substrate for Syk

<400> 13

Asp Glu Tyr Glu Asp  
1 5

<210> 14

<211> 5

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: peptide  
identified as a preferred substrate for Syk

<400> 14

Asp Tyr Glu Glu Val  
1 5

<210> 15

<211> 5

<212> PRT

<213> Artificial Sequence

<220>

<221> UNSURE

<222> (5)

<223> Leucine at position 5 is Norleucine

<220>

<223> Description of Artificial Sequence: peptide  
identified as preferred substrate for Syk

<400> 15

Tyr Ser Ile Ile Leu  
1 5

<210> 16

<211> 5

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: peptide  
identified as a preferred substrate for CSK

<400> 16

Asp Glu Glu Glu Tyr  
1 5

<210> 17

<211> 5

<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: peptide  
identified as a preferred substrate for CSK

<400> 17  
Asp Glu Glu Tyr Phe  
1 5

<210> 18  
<211> 5  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: peptide  
identified as a preferred substrate for CSK

<400> 18  
Asp Glu Tyr His Asn  
1 5

<210> 19  
<211> 5  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: peptide  
identified as a preferred substrate for CSK

<400> 19  
Asp Tyr His Leu Phe  
1 5

<210> 20  
<211> 5  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: peptide  
identified as a preferred substrate for CSK

<400> 20  
Tyr Pro Ile Glu Val  
1 5

<210> 21  
<211> 5

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: peptide  
identified as active site substrate recognition  
substrate for v-Abl

<400> 21

Ser Tyr Phe His Glu

1

5